



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-2-LED-14L-DA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3607
 [TESTLAB] TUV SUD America
 [TESTDATE] 12/7/2018 2:56:23 PM
 [ISSUEDATE] 03/11/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] EGW-2-LED-14L-DA-S-40-80
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20208	17247	17364
55	18003	14588	14432
65	15450	11447	11108
75	12472	8143	7718
85	8871	4762	3672

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	4609	4609	4609	4609	4609	4609	4609	4609	4609	4609
2.5	4603	4606	4609	4601	4609	4601	4609	4606	4603	4606
5.0	4590	4593	4596	4589	4596	4589	4596	4593	4590	4593
7.5	4567	4569	4574	4569	4576	4569	4574	4569	4567	4569
10.0	4535	4537	4541	4537	4546	4537	4541	4537	4535	4537
12.5	4492	4493	4498	4495	4503	4495	4498	4493	4492	4493
15.0	4440	4442	4446	4444	4451	4444	4446	4442	4440	4442
17.5	4380	4383	4387	4382	4391	4382	4387	4383	4380	4383
20.0	4310	4313	4318	4312	4320	4312	4318	4313	4310	4313
22.5	4230	4232	4238	4230	4237	4230	4238	4232	4230	4232
25.0	4140	4143	4147	4137	4141	4137	4147	4143	4140	4143
27.5	4041	4043	4046	4033	4036	4033	4046	4043	4041	4043
30.0	3934	3934	3931	3918	3921	3918	3931	3934	3934	3934
32.5	3816	3817	3811	3797	3799	3797	3811	3817	3816	3817
35.0	3691	3689	3680	3665	3666	3665	3680	3689	3691	3689
37.5	3555	3552	3540	3525	3526	3525	3540	3552	3555	3552
40.0	3408	3404	3390	3373	3372	3373	3390	3404	3408	3404
42.5	3255	3251	3230	3213	3208	3213	3230	3251	3255	3251
45.0	3096	3087	3062	3043	3037	3043	3062	3087	3096	3087
47.5	2927	2916	2889	2867	2851	2867	2889	2916	2927	2916
50.0	2749	2740	2707	2682	2661	2682	2707	2740	2749	2740
52.5	2563	2555	2522	2490	2465	2490	2522	2555	2563	2555
55.0	2373	2366	2334	2296	2265	2296	2334	2366	2373	2366
57.5	2186	2173	2142	2100	2064	2100	2142	2173	2186	2173
60.0	2006	1987	1950	1903	1868	1903	1950	1987	2006	1987
62.5	1827	1807	1762	1712	1675	1712	1762	1807	1827	1807
65.0	1644	1627	1575	1525	1491	1525	1575	1627	1644	1627
67.5	1466	1452	1400	1348	1316	1348	1400	1452	1466	1452
70.0	1297	1282	1231	1178	1147	1178	1231	1282	1297	1282
72.5	1133	1120	1067	1013	984	1013	1067	1120	1133	1120
75.0	970	959	904	850	829	850	904	959	970	959
77.5	809	805	758	703	682	703	758	805	809	805
80.0	670	667	624	564	538	564	624	667	670	667
82.5	537	536	498	435	405	435	498	536	537	536
85.0	415	416	386	324	284	324	386	416	415	416
87.5	307	313	288	236	191	236	288	313	307	313
90.0	225	230	212	170	137	170	212	230	225	230
92.5	165	170	155	126	115	126	155	170	165	170
95.0	122	126	115	99	106	99	115	126	122	126
97.5	92	96	88	86	105	86	88	96	92	96
100.0	72	74	70	81	107	81	70	74	72	74
102.5	59	60	59	78	108	78	59	60	59	60
105.0	49	50	52	76	105	76	52	50	49	50
107.5	43	44	48	73	99	73	48	44	43	44
110.0	38	39	44	69	91	69	44	39	38	39
112.5	35	35	40	63	82	63	40	35	35	35
115.0	32	31	37	57	72	57	37	31	32	31
117.5	29	28	33	50	63	50	33	28	29	28
120.0	26	24	30	44	54	44	30	24	26	24
122.5	23	21	25	38	47	38	25	21	23	21
125.0	21	18	21	32	40	32	21	18	21	18
127.5	18	15	17	28	34	28	17	15	18	15
130.0	15	13	13	24	29	24	13	13	15	13
132.5	13	10	10	20	25	20	10	10	13	10

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135.0	11	9	9	17	21	17	9	9	11	9
137.5	9	7	8	15	18	15	8	7	9	7
140.0	7	6	7	13	15	13	7	6	7	6
142.5	6	6	7	11	13	11	7	6	6	6
145.0	7	7	7	10	12	10	7	7	7	7
147.5	8	8	8	9	10	9	8	8	8	8
150.0	8	8	8	9	9	9	8	8	8	8
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	4609	4609	4609	4609	4609	4609	4609
2.5	4609	4601	4609	4601	4609	4606	4603
5.0	4596	4589	4596	4589	4596	4593	4590
7.5	4574	4569	4576	4569	4574	4569	4567
10.0	4541	4537	4546	4537	4541	4537	4535
12.5	4498	4495	4503	4495	4498	4493	4492
15.0	4446	4444	4451	4444	4446	4442	4440
17.5	4387	4382	4391	4382	4387	4383	4380
20.0	4318	4312	4320	4312	4318	4313	4310
22.5	4238	4230	4237	4230	4238	4232	4230
25.0	4147	4137	4141	4137	4147	4143	4140
27.5	4046	4033	4036	4033	4046	4043	4041
30.0	3931	3918	3921	3918	3931	3934	3934
32.5	3811	3797	3799	3797	3811	3817	3816
35.0	3680	3665	3666	3665	3680	3689	3691
37.5	3540	3525	3526	3525	3540	3552	3555
40.0	3390	3373	3372	3373	3390	3404	3408
42.5	3230	3213	3208	3213	3230	3251	3255
45.0	3062	3043	3037	3043	3062	3087	3096
47.5	2889	2867	2851	2867	2889	2916	2927
50.0	2707	2682	2661	2682	2707	2740	2749
52.5	2522	2490	2465	2490	2522	2555	2563
55.0	2334	2296	2265	2296	2334	2366	2373
57.5	2142	2100	2064	2100	2142	2173	2186
60.0	1950	1903	1868	1903	1950	1987	2006
62.5	1762	1712	1675	1712	1762	1807	1827
65.0	1575	1525	1491	1525	1575	1627	1644
67.5	1400	1348	1316	1348	1400	1452	1466
70.0	1231	1178	1147	1178	1231	1282	1297
72.5	1067	1013	984	1013	1067	1120	1133
75.0	904	850	829	850	904	959	970
77.5	758	703	682	703	758	805	809
80.0	624	564	538	564	624	667	670

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82.5	498	435	405	435	498	536	537
85.0	386	324	284	324	386	416	415
87.5	288	236	191	236	288	313	307
90.0	212	170	137	170	212	230	225
92.5	155	126	115	126	155	170	165
95.0	115	99	106	99	115	126	122
97.5	88	86	105	86	88	96	92
100.0	70	81	107	81	70	74	72
102.5	59	78	108	78	59	60	59
105.0	52	76	105	76	52	50	49
107.5	48	73	99	73	48	44	43
110.0	44	69	91	69	44	39	38
112.5	40	63	82	63	40	35	35
115.0	37	57	72	57	37	31	32
117.5	33	50	63	50	33	28	29
120.0	30	44	54	44	30	24	26
122.5	25	38	47	38	25	21	23
125.0	21	32	40	32	21	18	21
127.5	17	28	34	28	17	15	18
130.0	13	24	29	24	13	13	15
132.5	10	20	25	20	10	10	13
135.0	9	17	21	17	9	9	11
137.5	8	15	18	15	8	7	9
140.0	7	13	15	13	7	6	7
142.5	7	11	13	11	7	6	6
145.0	7	10	12	10	7	7	7
147.5	8	9	10	9	8	8	8
150.0	8	9	9	9	8	8	8
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1691.45	N.A.	12.50
0-30	3599.75	N.A.	26.50
0-40	5899.29	N.A.	43.50
0-60	10342.61	N.A.	76.20
0-80	12866.19	N.A.	94.80
0-90	13283.48	N.A.	97.90
10-90	12846.78	N.A.	94.70
20-40	4207.84	N.A.	31.00
20-50	6569.51	N.A.	48.40
40-70	6006.03	N.A.	44.30
60-80	2523.58	N.A.	18.60
70-80	960.87	N.A.	7.10
80-90	417.29	N.A.	3.10
90-110	202.95	N.A.	1.50
90-120	246.98	N.A.	1.80
90-130	270.20	N.A.	2.00
90-150	285.71	N.A.	2.10
90-180	286.26	N.A.	2.10
110-180	83.31	N.A.	0.60
0-180	13569.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	436.70
10-20	1254.75
20-30	1908.3
30-40	2299.55
40-50	2361.66
50-60	2081.66
60-70	1562.71
70-80	960.87
80-90	417.29
90-100	134.29
100-110	68.66
110-120	44.03
120-130	23.22
130-140	10.16
140-150	5.35
150-160	0.55
160-170	0.00
170-180	0.00

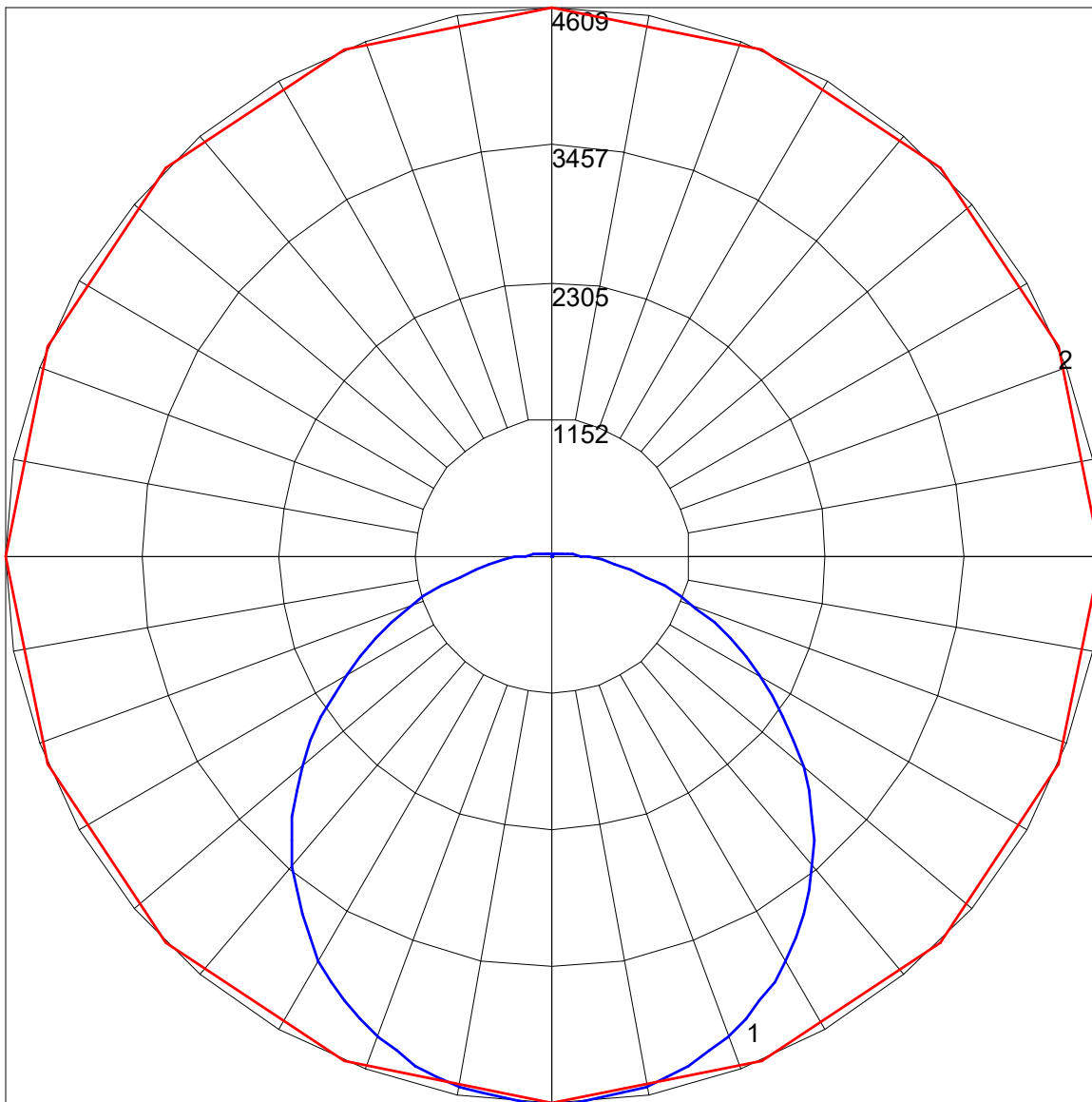
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	93	96	92	89	91	89	86	87	85	83	81
2	98	89	82	77	95	87	81	76	83	78	73	80	75	71	77	73	70	67
3	89	79	70	64	87	77	69	63	73	67	62	70	65	60	68	63	59	57
4	82	70	61	54	79	68	60	53	65	58	52	63	56	51	60	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4609 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)